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27.11.91 Bulletin 91/48(71) Applicant: **HUGHES AIRCRAFT COMPANY**

**7200 Hughes Terrace
Los Angeles, CA 90045-0066(US)**

(72) Inventor: **Zwirn, Robert
2234 Kelton Avenue
Los Angeles, CA 90064(US)**

(74) Representative: **KUHNEN, WACKER &
PARTNER
Alois-Steinecker-Strasse 22 Postfach 1553
W-8050 Freising(DE)**

(54) **Imaging system for providing separate simultaneous real time images from a single image sensor.**

(57) A system is disclosed for providing separate simultaneous real time images from a single image sensor. The invention 10 is adapted for use with an image sensor 12 which provides a first set of electrical signals in response to electromagnetic energy received thereby from a scene and includes a processor 16 for processing the first set of electrical signals to provide a second set of electrical signals and at least one display 14 for providing first and second separate simultaneous real time images in

response to the first and second sets of electrical signals respectively. In a preferred embodiment, the processor 16 includes circuitry for increasing the sampling rate of the image sensor 12 and a deconvolver 30 for processing the highly sampled signals to generate a second set of electrical signals which, when displayed contemporaneously with said first electrical signals, provide an enhanced magnified portion of the sensed scene.

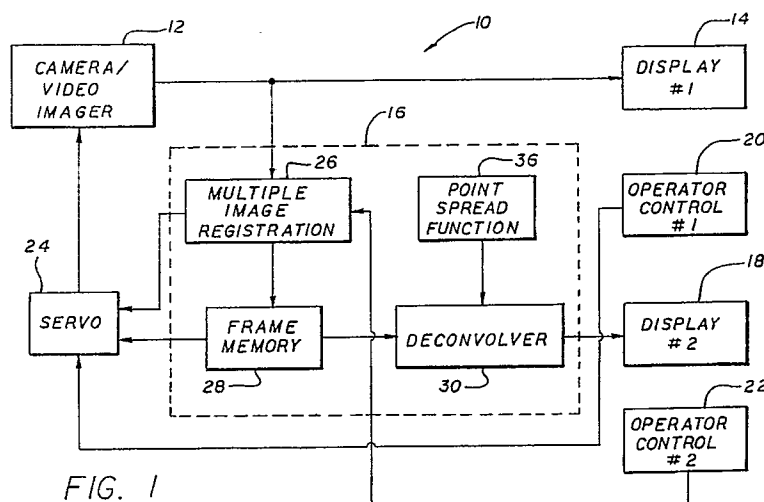


FIG. 1

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EUROPEAN SEARCH REPORT

Application Number

EP 90 10 2110

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
A	DE-A-3 146 552 (IBP PIETZSCH) * Page 4, line 6 - page 5, line 9; figures * - - -	1,11,16	H 04 N 5/33 H 04 N 5/335
D,A	WO-A-8 402 989 (HUGHES AIRCRAFT) * Page 2, line 2 - page 3, line 17 * - - -	2-10, 12-15	
A	PATENT ABSTRACTS OF JAPAN, vol. 8, no. 183 (P-296)[1620], 23rd August 1984; & JP-A-59 75 129 (NIPPON DENSHI) 27-04-1984 * Abstract * - - -	1,11,16	
A	US-A-4 774 581 (SHIRATSUCHI) * Column 2, lines 24-56 * - - - - -	1,11,16	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			H 04 N
The present search report has been drawn up for all claims			
Place of search		Date of completion of search	Examiner
The Hague		19 September 91	BEQUET T.P.
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone		E : earlier patent document, but published on, or after the filing date	
Y : particularly relevant if combined with another document of the same category		D : document cited in the application	
A : technological background		L : document cited for other reasons	
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